

A certain family of self-similar sets

Igudesman K.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

In this paper we consider an one-parameter family of iterated function systems. For every value of the parameter we find the set of top addresses. We prove that this set is a countable disjoint union of self-similar sets and calculate its Hausdorff dimension. © 2011 Allerton Press, Inc.

<http://dx.doi.org/10.3103/S1066369X11020046>

Keywords

attractor, Hausdorff dimension, iterated function systems, self-similarity, top address